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SCREEN GRID R-F AMPLIFIER

Heater	Coated Unipotential Cathode	
Voltage	2.5	a-c or d-c volts
Current	1.75	amp.
Direct Interelectrode Capacitances:		
Grid to Plate	0.007 max.	μf
Input	5.3	μf
Output	10.5	μf
Overall Length	4-25/32" to 5-1/32"	
Maximum Diameter	1-13/16"	
Bulb	ST-14	
Cap	Small Metal	
Base	Medium 5-Pin	
Pin 1 - Heater		
Pin 2 - Plate		
Pin 3 - Screen		
Pin 4 - Cathode		
Pin 5 - Heater		
Cap - Grid		
Mounting Position	Any	



BOTTOM VIEW

AMPLIFIER - Class A₁

Operating Conditions and Characteristics:

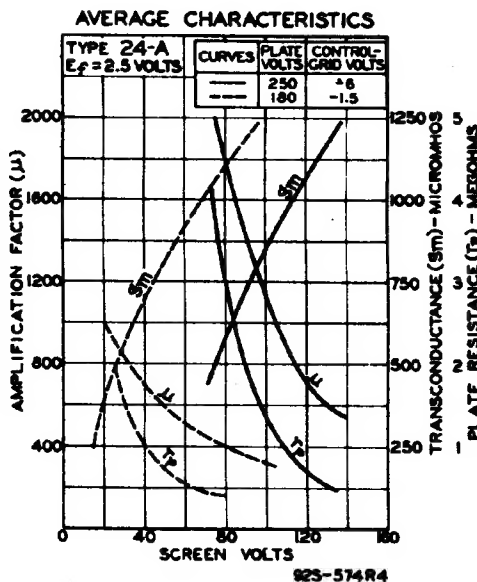
Heater*	2.5	2.5	volts
Plate	180	250 \square	volts
Screen	90	90	max. volts
Grid	-3	-3	volts
Amp. Fact.	400	630	
Plate Res.	400000	600000	ohms
Transcond.	1000	1050	μmhos
Plate Cur.	4	4	ma.
Screen Cur.	1.7	1.7	max. ma.

DETECTOR

Typical Operation:

	Biased	Grid-Leak	
Heater*	2.5	2.5	volts
Plate	250 \square	180 max.	volts
Screen	20 to 45	20 to 45	volts
Grid	-5 approx.	Return to Cathode ∇	volts
Plate Load	0.25 Δ	0.25 Δ	megohm
Plate Cur.	Adjusted to 0.1 ma. with no input signal	-	

- \square Max. plate volts = 275.
- ∇ Conventional grid leak and condenser.
- Δ Or 500 h. choke shunted by 0.25 megohm. For resistance load, plate-supply voltage will be voltage at plate plus voltage drop in load caused by specified plate current.
- \circ With shield-can.
- \bullet Average plate current with normal maximum signal should be limited to 4.0 ma., as measured with a d-c meter.
- * In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.
- \leftarrow Indicates a change.



APRIL 3, 1939

RCA RADOTRON DIVISION
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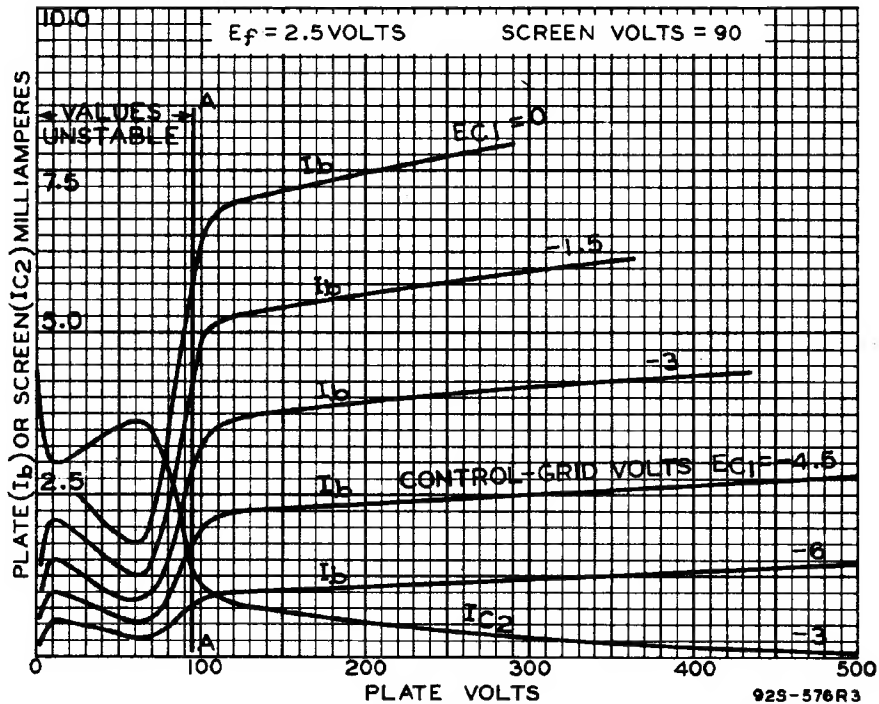
DATA

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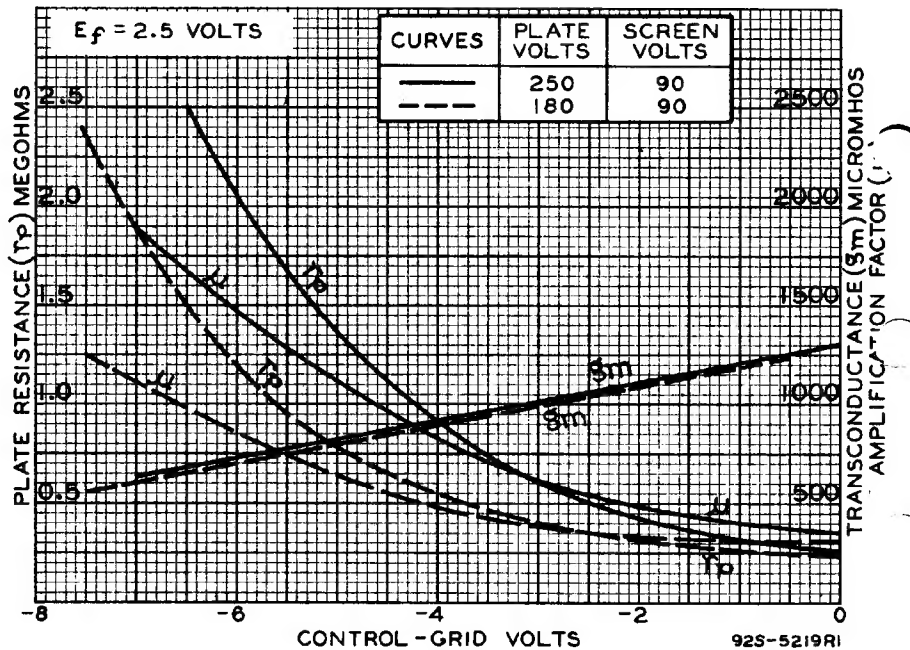


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AVERAGE PLATE CHARACTERISTICS



AVERAGE CHARACTERISTICS



FEB. 14, 1939

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92C-6027